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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/655,028	09/05/2003	Paul L. Camwell	A891743US	6038	
37047 GOWLÍNG LA	7590 11/27/2007 AFLEUR HENDERSON L	EXAMINER			
SUITE 1400, 700 2ND ST. SW			CAVALLARI, DANIEL J		
CALGARY, A CANADA	ALGARY, AB T2P 4V5		ART UNIT	PAPER NUMBER	
			2836		
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	•		11/27/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)	
		10/655,028	CAMWELL ET AL.	
Office Action Summary		Examiner	Art Unit	
		Daniel Cavallari	2836	
The MAILING DATE of this of	communication appea	ars on the cover sheet w	ith the correspondence addres	ss
Period for Reply				
A SHORTENED STATUTORY PE WHICHEVER IS LONGER, FROM - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date o - If NO period for reply is specified above, the m - Failure to reply within the set or extended perion Any reply received by the Office later than three earned patent term adjustment. See 37 CFR	THE MAILING DAT provisions of 37 CFR 1.136(if this communication. naximum statutory period will od for reply will, by statute, ca be months after the mailing de	E OF THIS COMMUNI a). In no event, however, may a apply and will expire SIX (6) MOI suse the application to become A	CATION. reply be timely filed NTHS from the mailing date of this commu BANDONED (35 U.S.C. § 133).	
Status				
1) Responsive to communication	on(s) filed on 13 Sen	tember 2007		
2a)⊠ This action is FINAL .		ction is non-final.		
3)☐ Since this application is in co			ters, prosecution as to the me	rits is
closed in accordance with th			•	
Disposition of Claims				
4)⊠ Claim(s) <u>6-20</u> is/are pending	in the application.			
4a) Of the above claim(s)	• •	from consideration.		
5) Claim(s) 6-16 is/are allowed.	-			
6)⊠ Claim(s) <u>18-20</u> is/are rejecte	d.	•		
7) Claim(s) is/are object	ed to.			
8) Claim(s) are subject t	o restriction and/or e	election requirement.		
Application Papers				
9)☐ The specification is objected	to by the Examiner.			
10) The drawing(s) filed on	_ is/are: a)□ accep	ted or b)□ objected to	by the Examiner.	
Applicant may not request that a	any objection to the dra	awing(s) be held in abeya	nce. See 37 CFR 1.85(a).	•
Replacement drawing sheet(s)	including the correction	n is required if the drawing	(s) is objected to. See 37 CFR 1.	.121(d).
11)☐ The oath or declaration is obj	ected to by the Exar	niner. Note the attache	d Office Action or form PTO-1	52.
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a) All b) Some * c) No		riority under 35 U.S.C.	§ 119(a)-(d) or (f).	
1. Certified copies of the	priority documents h	nave been received.		
		nave been received in A		
			received in this National Stag	је
application from the In	•	` ''		
* See the attached detailed Office	ce action for a list of	the certified copies not	received.	
Attachment(s)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing I 	Review (PTO-948)	4) Ll Interview : Paper No(Summary (PTO-413) s)/Mail Date	
3) Information Disclosure Statement(s) (PTC		5) 🔲 Notice of I	nformal Patent Application	
Paper No(s)/Mail Date		6)	<u>_</u> ·	

DETAILED ACTION

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The Examiner acknowledges the amendments submitted 9/13/2007. The amendments to claim 18, cancellation of claim 17 and new claims 19 & 20 are accepted.

Response to Arguments

Applicant's arguments with respect to claims 18-20 have been considered but are moot in view of the new ground(s) of rejection.

As a preliminary matter, the Examiner notes that Claim 18 presented in the Remarks on page 10 does not match the claim presented in the amended claims. Particularly, claim 18 in the remarks states "A coaxial multiconductor plug..." whereas the actual amended claim 18 recites "A multiconductor plug" wherein the same discrepancy has been made between the remarks in regard to new claims 19 & 20.

The Examiner further notes that since the amendments to the claims change their scope, this action is Final as necessitated by amendment.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takahasi (US 6,192,435) and Wood (US 5,726,506).

In regard to Claims 18

Takahasi teaches:

A multi-conductor plug (30) and socket (20) means arrangement (See Figure 2) said plug and socket means sharing a common axis (See Figure 2 and note how the male and female sockets align forming a common axis), each with a plurality of contacts, read on by the female and male pins (See Column 4, Line 65 to Column 5, Line 9) comprising:

- A first plug (30) contact (topmost) of said plug contacts electrically coupled to a
 first simple electronic device (read on by the wiring connecting the wire
 connecting the plug to the line Vi) and at least one other electrical contact
 (second from the topmost contact) electrically coupled to an isolation means,
 read on by switch (SW1) which is activated upon full engagement of the plug and
 socket arrangement (See Column 9, Lines 53-67).
- A first socket contact electrically coupled to a second simple electronic device
 (read on by the wiring connecting the wire connecting the plug to the line Vi when
 the plug and socket are connected), and at least one other contact electronically
 coupled to an electronic isolation means, read on by switch (10).
- The socket isolation means (10) activated only when the second simple
 electronic device is detected by full engagement permitting current flow from the

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contacts which is activated upon full engagement of the plug and socket arrangement (See Column 4, Lines 43-50 & Column 7, Line 56 to Column 8, Line 58).

Takahasi fails to teach wherein the simple electronic device above is a diode isolating the plug and socket via diodes. However, Wood teaches a connector arrangement in which the power supply (PS) and load side (LOAD) comprise protective diodes (See Figure 1).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate power supply side (socket side) and load side (plug side) diodes on the power supply line and load lines of the plug and socket connector as taught by Takahasi (See Figure 2 & See Column 4, Lines 43-50 & Column 7, Line 56 to Column 8, Line 58). The motivation would have been to protect the circuits against reverse current (See Column 4, Lines 54-64).

In regard to Claim 19

A multi-conductor plug (30) and socket (20) (See Figure 2) arrangement comprising:

- A pair of plug contacts, read on by the upper two pins of plug (30) (See Figure 2).
- Socket isolation means (10).
- At least one socket contact electrically coupled to said socket isolation means (as is the case when the plug and socket are connected).
- Wherein said plug and contact means share a common axis and wherein upon full engagement of said plug and socket means arrangement and upon current

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being detected, said socket means (1) is activated (See Figure 2 & See Column 4, Lines 43-50 & Column 7, Line 56 to Column 8, Line 58).

Takahashi fails to teach:

A diode electrically coupled to said pair of plug contacts.

However, Wood teaches a connector arrangement in which the power supply (PS) and load side (LOAD) comprise protective diodes (See Figure 1).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate power supply side (socket side) and load side (plug side) diodes on the power supply line and load lines of the plug and socket connector as taught by Takahasi (See Figure 2 & See Column 4, Lines 43-50 & Column 7, Line 56 to Column 8, Line 58). The motivation would have been to protect the circuits against reverse current (See Column 4, Lines 54-64).

In regard to Claim 20

Takahashi fails to teach:

A diode electrically coupled to said pair of socket contacts.

However, Wood teaches a connector arrangement in which the power supply (PS) and load side (LOAD) comprise protective diodes (See Figure 1).

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate power supply side (socket side) and load side (plug side) diodes on the power supply line and load lines of the plug and socket connector as taught by Takahasi (See Figure 2 & See Column 4, Lines 43-50 & Column 7, Line 56 to Column 8, Line 58). The motivation would have been to protect the circuits against reverse current (See Column 4, Lines 54-64).

Allowable Subject Matter

Claims 6-16 are allowed for reasons indicated in the Office Action of 1/22/2007.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Daniel Cavallari whose telephone number is 571-272-

8541. The examiner can normally be reached on Monday-Friday 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Sherry can be reached on (571)272-2800 x36. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

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Daniel Cavallari

November 21, 2007

MICHAEL SHERRY SUPERVISORY PATENT EXAMINER

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